Transistors 2SC9018

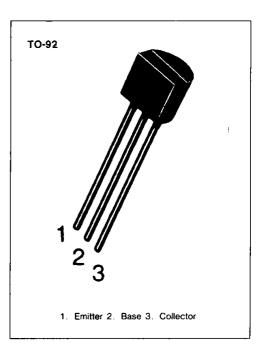


AM/FM IF AMPLIFIER, LOCAL OSCILLATOR OF FM/VHF TUNER

• High Current Gain Bandwidth Product f₇ =1,100 MHz (Typ)

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V _{CBO}	30	V	
Collector-Emitter Voltage	V _{CEO}	15	l v	
Emitter-Base Voltage	V _{EBO}	5	V	
Collector Current	l _C	50	mA	
Collector Dissipation	Pc	400	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-55~150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA, I _E =0	30			v
Collector-Emitter Breakdown Voltage	BVCEO	$I_{C}=1.0mA, I_{B}=0$	15			V
Emitter-Base Breakdown Voltage	BVEBO	$I_E = 100 \mu A, I_C = 0$	5	1		V
Collector Cutoff Current	Ісво	V _{C8} =12V, I _E =0			50	nA
DC Current Gain	h _{FE}	$V_{CE}=5V$, $I_{C}=1.0mA$	28	100	198	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =10mA, I _B =1mA			0.5	V
Output Capacitance	Cob	$V_{CB} = 10V, I_E = 0$		1.3	1.7	pF
		f=1MHz				
Current Gain-Bandwidth Product	f⊤	$V_{CE}=5V$, $I_{C}=5mA$	700	1100		MHz

h_{FE} CLASSIFICATION

Classification	D	E	F	G	н	I
h _{FE}	28-45	39-60	54-80	72-108	97-146	132-198



